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Patent  
Case No.: 58716US002

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

First Named Inventor: ANDERSON, THOMAS J.  
Application No.: 10/740262 Group Art Unit: 1755  
Filed: December 18, 2003 Examiner: Unknown  
Title: ALUMINA-YTTRIA PARTICLES AND METHODS OF MAKING THE SAME

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

August 10, 2004 Lisa Hengen  
Date Signed by: Lisa Hengen

Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449, citing references submitted for consideration by the Examiner. Copies of any cited foreign patents, non-patent literature, and unpublished US application documents are enclosed. Pursuant to the waiver in the Pre-OG Notice, dated July 11, 2003, copies of US patents and published US patent applications are no longer required and are not enclosed. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

It is believed that no fee is due; however, in the event a fee is required, please charge the fee to Deposit Account No. 13-3723.

Respectfully submitted,

Date

August 9, 2004

By:

  
Gregory D. Allen, Reg. No.: 35,048  
Telephone No.: (651) 736-0641

Substitute for form 1449A/PTO (modified)

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10/740262

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First Named Inventor

Anderson, Thomas J.

Art Unit

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Attorney Case Number

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

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## U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
	A1	US- 3,625,717	12/07/1971	Grubba et al.	
	A2	US- 4,316,964	02/23/1982	Lange	
	A3	US- 4,757,036	07/12/1988	Kaar et al.	
	A4	US- 5,248,318 A	09/28/1993	Tamamaki et al.	
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	A7	US- 5,516,348 A	05/14/1996	Conwell et al.	
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## Foreign Patent Documents

Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-KindCode (If known)				
	B1	DE	141 420	04/30/1980			X
	B2	EP	0 227 374	07/01/1987			
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	B7	GB	793,503	04/16/1958			
	B8	GB	1,005,338	09/22/1965			
	B9	GB	2 116 992	10/05/1983			

\*Examiner:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A/PTO (modified)

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Art Unit 1755

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		Ctry. Code	Number-KindCode (If known)				
	B10	GB	2 377 438 A	01/15/2003			
	B11	JP	61099665	05/17/1986			Abstract
	B12	JP	05-085821	04/06/1993			X
	B13	JP	06-171974	06/21/1994			X
	B14	JP	62-003041	01/09/1987			X
	B15	JP	2003-94414	04/03/2003			X

## OTHER DOCUMENTS

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
	C1	Aasland and McMillan, Nature 369, 633 (1994)	
	C2	Aguilar et al, "Melt Extraction Processing of Structural Y <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> Fibers", J. Eur. Ceram. Soc. 20 1091-1098 (2000)	
	C3	Gandhi, A.S. and Jarayam, V., "Pressure Consolidation of Amorphous ZrO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> by Plastic Deformation of Powder Particles", Acta Materialia, 50 (2002), 2137-2149	
	C4	Gonzalez, Eduardo J., et al., "High Pressure Compaction and Sintering of Nano-Size γ-Al <sub>2</sub> O <sub>3</sub> Powder", Materials and Manufacturing Processes Vol. 11, No. 6, 951-967, 1996	
	C5	Jantzen, C.M., Krepski, R.P., & Herman, H., "Ultra-Rapid Quenching of Laser-Method Binary and Unary Oxides", Mat. Res. Bull. 15, 1313-1326 (1980)	
	C6	Khor K.A., "Novel ZrO <sub>2</sub> -Mullite Composites Produced By Plasma Spraying", Proceedings of the 15 <sup>th</sup> International Thermal Pray Conference, 25-29 May 1998, Nice, France	
	C7	Ray, C.S. and Day, D.E., "Determining the Nucleation Rate Curve for Lithium Disilicate Glass by Differential Thermal Analysis", J. Am. Ceram. Soc. 73(2) 439-442 (1990)	
	C8	Schmucker, M, et al., "Constitution of Mullite Glasses Produced by Ultra-Rapid Quenching of Plasma-Sprayed Melts", Journal of the European Ceramic Society 15 (1995) 1201-1205	
	C9	Sarjeant, P.T. & Roy, R., in Reactivity of Solids (ed. J. W. Mitchell, R.C., DeVries, R.W., Roberts and P. Cannon) 725-33 (John Wiley & Sons, Inc., New York 1969)	
	C10	Takamori, T., & Roy, R., "Rapid Crystallization of SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> Glasses", Journal of American Society, Vol. 56, No. 12, December 1973.	
	C11	Weber et al., "Synthesis and Optical Properties of Rare-Earth-Aluminum Oxide Glasses", J. Am. Ceram. Soc. 85(5) 1309-1311 (2002)	
	C12	Wilding, M.C., McMillan, P.F., "Polyamorphic Transitions in Yttria-Alumina Liquids", J. Non-Cryst. Solids. 293-295, 357-365 (2001)	

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